

Student Success Update

COLLEGE ACTION PROJECTS

Data Warehouse implementation

5.3.4

Project Title: Kevin O'Halla

Project #: January, 2013

Project Author: Jody Graves, Paul Herdegen, Kevin O'Halla, David Anderson, Bruce Morrison, Donna

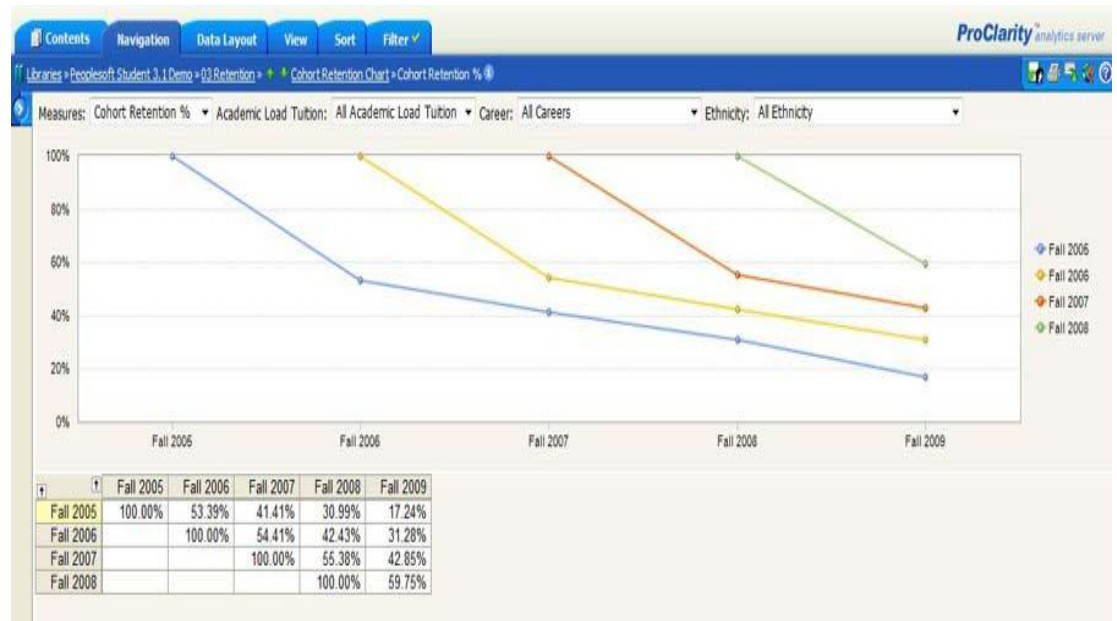
Project Team: Kragt, Anne Meilof

Highlights

- Dashboards
- Enrollment Data
- Student Demographics
- Student Retention
- Early Intervention
- Graduation
- Reports dramatically reduced staff time by producing a one-click student data sheet with contact info, H.S. statistics, and current college information
- Reports created for College Success Program to pull student bio for success coaches
- Currently implementing Bb Learn module for College Success Program

Introduction:

Promote data based decision making while implementing a Data Warehouse



Purpose:

The GRCC data warehouse will be a collection of transactional data gathered and organized so that it can be easily analyzed, extracted, synthesized, and otherwise used for the purposes of further understanding the data and enhancing the decision-making process. This enhances our ability to understand students and to implement new initiatives to impact student success.



Overview:

Phase one of the data warehouse implementation includes three modules for Blackboard Analytics: Student, Finance, Blackboard Learn. We set up a MS SQL Server database and MS SharePoint server for dashboards. The focus on phase one will be on those modules impacting Title III (Student and Bb Learn) with a go live of winter 3013.

Phase two will include implementing the Finance and Financial Aid modules during the summer 2013 semester. **Phase three** will see the implementation of a user friendly report tool to allow us to tie all the modules together. This will give us the ability for a true 360 view of the student. Target dates are not set as we need to examine solutions, select the best product and then find funding (see challenges).

Blackboard analytics

Home Student Financials Learn Analytics Search this site.

ProClarity
Reporting Services
Data Warehouse
Documentation
Dashboard Designer

Recycle Bin
All Site Content

Term: Spring 2011 College: All Colleges
 Department: All Departments

Learn Activity

	Actual	Goal		
Course Logins	21,280	20,216	↑	10%
Avg Logins	46.2	50	↓	-8%
Avg Pages	.8	.8	●	0%
Avg Minutes	932.7	900	↑	4%
Courses Using Bb	677	609	↑	11%
Students Enrolled	10,057	28,000	↓	-64%

Coll Arts Humanities & Soc Sci
Engineering & Info Tech
Natural & Math Sciences
Pollard School of Aging St
Professional Education
Social Work
UBB

Login Trend

Activity by College

Top Ten Most Active Courses

Course by Class number	Enrollment Count	Logins ~	Pages ~	Avg Logins	Avg Pages
CHEM 102	538	46,026	259,764	85.6	.8
MATH 151	349	26,205	119,887	75.1	.8
CHEM 101	329	24,052	114,330	73.1	.8
PSYC 100	396	17,930	344,453	45.3	.8
SPAN 201	319	17,269	91,024	54.1	.8
BIOL 141	268	15,777	75,568	58.9	.8
BIOL 303	245	15,060	67,777	61.5	.8
STAT 350	215	14,043	67,614	65.3	.8
SCI 100	200	13,754	146,291	68.8	.8
IS 698	116	12,744	133,331	109.9	.8



Goals:

- *Complete rollout of student module to other functional areas*
- *Implement and train users on new Pyramid reporting tool for student module*
- *Implement Bb Learn module to complete initial Title III activity*
- *Begin implementation of Finance and Financial Aid modules*

Results:

- | | |
|--------------------|---|
| 4/30/2012 | Student Module installation complete. This included:
ProClarity |
| | DW Administration Tool (HEAdmin version 4)
SQL Server Reporting Services (SSRS) with Demo Reports
Analysis Services 2008 R2 |
| 5/7/2012-5/10/2012 | Bb on site for our Orientation |
| 5/2012 – 7/2012 | worked on the workbook (Paul, Bruce, Jody) |
| 7/25/2012 | Technical Training I - onsite |
| 7/31/2012 | Created Production environment for Data Warehouse |
| 8/9/2012 | SharePoint Server Installed along with the SharePoint software |
| 8/23/2012 | Technical Training II - Onsite (Highlights below): |
| | PeopleSoft Production data loads daily at 2:00 am
Connected SharePoint server to data warehouse
SharePoint dashboards installed for student
Worked on ProClarity measures, cubes and dimensions
SSRS reporting installed on production server
Team worked on custom helpers for data warehouse (data integrity)
Understanding of Bb process from PeopleSoft extract to OLAP data cube |
| 8/31/2012 | Continued work on the Data Warehouse which includes
Creating the CSP student group in PeopleSoft to identify Title III Students |
| 9/2012-10/2012 | Resolving load errors for student module
SSRS training for College Success staff and other key functional users |
| 10/18/2012 | Worked with Domingo's specifications to modify and create SSRS reports for a service indicator summary report and added a drill down for the College Success Program students which included basic and advanced bio-demo, high school, and current college status and class schedules |
| 11/2012-12/2012 | |
| 11/20/2012 | Student module being used by College Success staff |

Next Steps:**Bb Analytics - Student**

Task	Start Date	End Date
Create a definition of terminology document, data dictionary, and help files	01/21/2013	On-going as we continue to validate data with departments
Schedule Snapshots	Upon completion of validation	Summer 2013
Schedule time with each functional area to use ProClarity, SSRS and PeopleSoft to validate data on reports	01/21/2013	Summer 2013

Bb Analytics - Learn

Task	Start Date	End Date
Install Newest Release	12/17/2012	12/17/2012
Learn Orientation and Training	3/11/2013	3/15/2013
Testing and Data Validation	To start right after orientation.	
Tech I and II training - 6 days	To be scheduled after orientation	
SQL Server Reporting Services Training (SSRS) - 3 days	To be scheduled after Tech Training	
Dashboard Training - 2 1/2 days	To be scheduled after SSRS. Create SharePoint Farm for Learn.	
Create custom reports	To be scheduled after SSRS	
End User Training	Targeting May 2013	

Bb Analytics - Financials

Task	Start Date	End Date
Install software	On Hold	
Orientation - 3 days	TBD	TBD
Continued Testing and Data Validation	To start right after orientation.	
Tech I and II training - 6 days	To be scheduled after orientation	
SQL Server Reporting Services Training (SSRS) - 3 days	To be scheduled after Tech training	
Dashboard Training - 2 1/2 days	To be scheduled after SSRS. Create SharePoint Farm for Financials	
Create custom reports	To be scheduled after SSRS	
End User Training	TBD	

Challenges:

Title III funding covered the student module. IT Dollars covered the Bb Learn and Finance modules. To complete the data warehouse for student information, the financial aid module is being purchased with IT dollars out of 2012-13. The final piece to tie all four modules together to create a true 360 degree of the student will need a report writer that can handle multiple data set (various databases, flat files, excel, etc.). This has not been budgeted for at this time. This could cost anywhere from \$60,00 - \$250,000 depending on what solution is selected. In addition, Bb Analytics has changed their future reporting tool from ProClarity to Pyramid. We must purchase Pyramid to stay current with future updates to each module.